(72) Inventors; and
(75) Inventors/Applicants (for US only): YIN, Peng [CN/US]; 5508 Hunters Glen Drive, Plainsboro, New Jersey 08536 (US). BOYCE, Jill, MacDonald [US/US]; 3 Brandywine Court, Manalapan, New Jersey 07726 (US).

(74) Agents: TRIPOLI, Joseph, S. et al.; c/o THOMSON Licensing Inc., Two Independence Way, Suite 200, Princeton, New Jersey 08540 (US).

(54) Title: METHOD AND APPARATUS FOR WEIGHTED PREDICTION ESTIMATION USING A DISPLACED FRAME DIFFERENTIAL

700
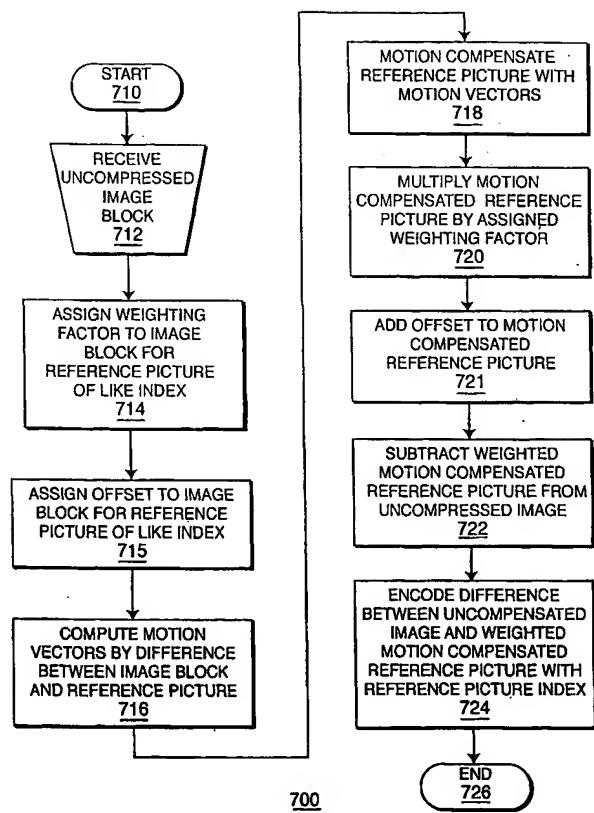
(57) Abstract: A video encoder (200, 300) and corresponding methods (600, 700) are provided for weighted prediction estimation using a displaced frame difference or differential, the encoder embodying a method (700) for receiving (712) a substantially uncompressed image block, assigning (714) a weighting factor for the image block corresponding to a particular reference picture having a corresponding index, computing (716) motion vectors corresponding to the difference between the image block and the particular reference picture, motion compensating (718) the particular reference picture in correspondence with the motion vectors, multiplying (720) the motion compensated reference picture by the assigned weighting factor to form a weighted motion compensated reference picture, subtracting (722) the weighted motion compensated reference picture from the substantially uncompressed image block, and encoding (724) a signal indicative of the difference between the substantially uncompressed image block and the weighted motion compensated reference picture along with the corresponding index of the particular reference picture.

WO 2005/004492 A2

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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